

CURRENT REFERENCE APPARATUS AND SYSTEMS

ABSTRACT OF THE DISCLOSURE

A current reference, which may be fabricated independently, on a die, as part
5 of an integrated circuit, or a system, or in various other forms, is disclosed. The
current reference may include a voltage source having a substantially temperature
stable output voltage, a first semiconductor device biased by the substantially
temperature stable output voltage to provide a first output current, and a second
semiconductor device providing a second output current, wherein a reference
10 current is provided approximately equal to the difference between the first and
second output currents.

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